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Technical daia sheet

Fumaric acid (FA)

Version: 07 date: March 2015

Synonyms

trans-2-Butenedioic acid; trans-1,2-Ethylenedicarboxylic acid; Allomaleic acid, (E)-2-Butenedioic acid.

Formula C₄H₄O₄

Structural formula

COOH

HOOC

Molecular weight: 116.1

CAS number

110-17-8

EINECS number

203-743-0

EEC number

E297

Product specification

Characteristics	Unit	Value	Method*	Reference
Appearance		White or nearly white crystal	GM037	
Purity	%	99.7 min	GM005all01	
Moisture	%	0.25 max	GM010	ASTM E-203
Colour in alcohol (5% sol.)	Hz	10 max	GM011all01	ASTM D-1209
Ash (Sulphated)	ppm	50 max	GM015	ASTM D-482
Iron	ppm	5 max	GM008	
Arsenic	ppm	1 max	GM008	

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Characteristics	Unit	Value	Method*	Reference
Heavy metals (as Pb)	ppm	10 max	GM008	
Lead	ppm	1 max	GM008	
Mercury	ppm	1 max	GM008	
Maleic acid	%	0.1 max	GM001all03	
 ⁽¹⁾ Microbiologic data Bacteria Moulds & yeasts Total coliforms Faecal coliforms Salmonella 	CFU/g CFU/g CFU/g CFU/g /25g	<10 <10 <10 <10 absent		

Note: ⁽¹⁾ This is a statistical control performed in an external laboratory and do not appear on the Certificate of Quality.

* Internal methods available upon request.

Typical properties

Characteristics	Unit	Value	
Melting point	°C	287	
Solubility in water @ 20°C	g/100 ml	0.7	
Bulk density	Kg	0.8 ÷ 0.9	
Granulometric analysis			
Granular FF			
• on 30 mesh sieve	%	2.5 max	
on 140 mesh sieve	%	60 min	

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Main applications

Fumaric acid is mainly used as food/feed additives. Due to its reactivity FA is a useful material for a variety of industrial applications such as paper sizing, unsaturated polyester resins (U.P.R.), alkyd and allyl resins, adhesives, lubricants.

Polynt fumaric acid complies with the current edition of US FCC and USP-NF.

It is produced in accordance with

- FSSC 22000 and it complies with Commission Regulation (EC) No 231/2012 for food additives, in terms of specific purity requirement.
- FAMI-QS Code of Practice for Feed Additive and Premixture Operators and it complies with Regulation (EC) No 1831/2003 for additives used in animal nutrition. Category: Technological Additives (cat.1), Functional Group: Preservatives (a).

Fumaric acid is free from proteins, fibre, starches, vitamins, fats, preservatives, colours, antioxidants or milk products and every product having an animal origin.

It is suitable for the vegetarian, vegan, diabetic, Jewish or Muslim diets.

Polynt fumaric acid is Kosher certified.

Handling

Packaging:	25 kg or 50 lbs multi-wall paper bags; 500/1000 kg big bags; bulk in autosilos
Storage:	it must be stored at room temperature, away from open flames or other potential ignition sources, in a dry and well-ventilated place.
Shelf life:	24 months from production date.

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Refer to the appropriate Safety Data Sheet for health, safety and environmental information